Jan Seuntjens

List of Publications by Year
in descending order

164 papers	6,353 citations	68634 39 h-index	68130 73 g-index
165 all docs	165 docs citations	165 times ranked	4583 citing authors

#	Article	IF	Citations
1	Report of the AAPM Task Group No. 105: Issues associated with clinical implementation of Monte Carloâ€based photon and electron external beam treatment planning. Medical Physics, 2007, 34, 4818-4853.	2.9	572
2	Precise radiochromic film dosimetry using a flat-bed document scanner. Medical Physics, 2005, 32, 2245-2253.	2.9	492
3	Radiomics strategies for risk assessment of tumour failure in head-and-neck cancer. Scientific Reports, 2017, 7, 10117.	3.4	411
4	Monte Carlo modelling of external radiotherapy photon beams. Physics in Medicine and Biology, 2003, 48, R107-R164.	3.0	338
5	Addendum to the AAPMËˆs TGâ€51 protocol for clinical reference dosimetry of highâ€energy photon beams. Medical Physics, 2014, 41, 041501.	2.9	239
6	Dosimetric properties of improved GafChromic films for seven different digitizers. Medical Physics, 2004, 31, 2392-2401.	2.9	231
7	Dosimetry of small static fields used in external photon beam radiotherapy: Summary of TRSâ€483, the IAEAâ€“AAPM international Code of Practice for reference and relative dose determination. Medical Physics, 2018, 45, e1123-e1145.	2.9	196
8	Deep learning in head & neck cancer outcome prediction. Scientific Reports, 2019, 9, 2764.	3.4	153
9	Ionization chamber-based reference dosimetry of intensity modulated radiation beams. Medical Physics, 2004, 31, 2454-2465.	2.9	101
10	Absorption spectra time evolution of EBTâ€2 model GAFCHROMICâ„¢ film. Medical Physics, 2010, 37, 2207-2214.	2.9	93
11	Monte Carlo role in radiobiological modelling of radiotherapy outcomes. Physics in Medicine and Biology, 2012, 57, R75-R97.	3.0	90
12	Head and neck squamous cell carcinoma: prediction of cervical lymph node metastasis by dual-energy CT texture analysis with machine learning. European Radiology, 2019, 29, 6172-6181.	4.5	89
13	A deformable phantom for 4D radiotherapy verification: Design and image registration evaluation. Medical Physics, 2008, 35, 1094-1102.	2.9	87
14	Detector dose response in megavoltage small photon beams. I. Theoretical concepts. Medical Physics, 2015, 42, 6033-6047.	2.9	86
15	A comparative study of small field total scatter factors and dose profiles using plastic scintillation detectors and other stereotactic dosimeters: The case of the CyberKnife. Medical Physics, 2013, 40, 011719.	2.9	80
16	Paracrine Effects of Bone Marrow Soup Restore Organ Function, Regeneration, and Repair in Salivary Glands Damaged by Irradiation. PLoS ONE, 2013, 8, e61632.	2.5	76
17	Ionization chamber gradient effects in nonstandard beam configurations. Medical Physics, 2009, 36, 4654-4663.	2.9	74
18	Development and validation of a BEAMnrc component module for accurate Monte Carlo modelling of the Varian dynamic Millennium multileaf collimator. Physics in Medicine and Biology, 2003, 48, 4045-4063.	3.0	73

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19	Photon absorbed dose standards. Metrologia, 2009, 46, S39-S58.	1.2	68
20	Reference radiochromic film dosimetry in kilovoltage photon beams during CBCT image acquisition. Medical Physics, 2010, 37, 1083-1092.	2.9	66
21	Absorption spectroscopy of EBT model GAFCHROMICâ„¢ film. Medical Physics, 2006, 34, 112-118.	2.9	65
22	A direct voxel tracking method for four-dimensional Monte Carlo dose calculations in deforming anatomy. Medical Physics, 2006, 33, 434-445.	2.9	65
23	Linearization of doseâ€“response curve of the radiochromic film dosimetry system. Medical Physics, 2012, 39, 4850-4857.	2.9	64
24	Dosimetric and microdosimetric study of contrast-enhanced radiotherapy with kilovolt x-rays. Physics in Medicine and Biology, 2005, 50, 3555-3569.	3.0	62
25	Absorbed dose to water reference dosimetry using solid phantoms in the context of absorbed-dose protocols. Medical Physics, 2005, 32, 2945-2953.	2.9	61
26	The Role of HMGB1 in Radioresistance of Bladder Cancer. Molecular Cancer Therapeutics, 2016, 15, 471-479.	3.7	58
27	Detector dose response in megavoltage small photon beams. II. Pencil beam perturbation effects. Medical Physics, 2015, 42, 6048-6061.	2.9	54
28	Consistency test of the electron transport algorithm in the GEANT4 Monte Carlo code. Physics in Medicine and Biology, 2005, 50, 681-694.	3.0	53
29	A protocol for EBT3 radiochromic film dosimetry using reflection scanning. Medical Physics, 2014, 41, 122101.	2.9	51
30	An artificial intelligence framework integrating longitudinal electronic health records with real-world data enables continuous pan-cancer prognostication. Nature Cancer, 2021, 2, 709-722.	12.0	48
31	Radiochromic film dosimetry of HDR ¹⁹²Ir source radiation fields. Medical Physics, 2011, 38, 6074-6083.	2.9	47
32	Characterization of calibration curves and energy dependence GafChromic^{TM} XR-QA2 model based radiochromic film dosimetry system. Medical Physics, 2014, 41, 062105.	2.9	46
33	Bayesian network ensemble as a multivariate strategy to predict radiation pneumonitis risk. Medical Physics, 2015, 42, 2421-2430.	2.9	46
34	Development and Validation of Multiparametric MRIâ€“based Radiomics Models for Preoperative Risk Stratification of Endometrial Cancer. Radiology, 2022, 305, 375-386.	8.3	45
35	Dosimetric evaluation of the clinical implementation of the first commercial IMRT Monte Carlo treatment planning system at 6 MV. Medical Physics, 2004, 31, 2771-2779.	2.9	44
36	Water calorimetry and ionization chamber dosimetry in an 85-MeV clinical proton beam. Medical Physics, 1996, 23, 643-650.	2.9	42

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37	Direct measurement of absorbed dose to water in HDR I192r brachytherapy: Water calorimetry, ionization chamber, Gafchromic film, and TG-43. Medical Physics, 2010, 37, 1924-1932.	2.9	42
38	Influence of focal spot on characteristics of very small diameter radiosurgical beams. Medical Physics, 2008, 35, 3317-3330.	2.9	41
39	Performance of Knowledge-Based Radiation Therapy Planning for the Glioblastoma Disease Site. International Journal of Radiation Oncology Biology Physics, 2017, 99, 1021-1028.	0.8	41
40	Measuring neutron spectra in radiotherapy using the nested neutron spectrometer. Medical Physics, 2015, 42, 6162-6169.	2.9	40
41	On the consistency of Monte Carlo track structure DNA damage simulations. Medical Physics, 2014, 41, 121708.	2.9	39
42	Correction factors and performance of a C sealed water calorimeter. Physics in Medicine and Biology, 1999, 44, 627-646.	3.0	37
43	Energy modulated electron therapy using a few leaf electron collimator in combination with IMRT and 3D-CRT: Monte Carlo-based planning and dosimetric evaluation. Medical Physics, 2005, 32, 2976-2986.	2.9	37
44	PD-1/PD-L1 Immune Checkpoint Inhibition with Radiation in Bladder Cancer: In Situ and Abscopal Effects. Molecular Cancer Therapeutics, 2020, 19, 211-220.	3.7	37
45	Mesenchymal stem cell transplantation to promote bone healing. Journal of Orthopaedic Research, 2012, 30, 1183-1189.	2.4	36
46	Creating Robust Predictive Radiomic Models for Data From Independent Institutions Using Normalization. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 210-215.	4.3	36
47	Dependence of overall correction factor of a cylindrical ionization chamber on field size and depth in medium-energy x-ray beams. Medical Physics, 1996, 23, 1789-1796.	2.9	35
48	Radioluminescence studies of colloidal oleate-capped Î²-Na(Gd,Lu)F₄:Ln³⁺ nanoparticles (Ln = Ce, Eu, Tb). Nanoscale, 2018, 10, 7821-7832.	5.6	34
49	Beam modeling and beam model commissioning for Monte Carlo dose calculationâ€based radiation therapy treatment planning: Report of AAPM Task Group 157. Medical Physics, 2020, 47, e1-e18.	2.9	32
50	Evaluation of EBT-2 model GAFCHROMICâ„¢ film performance in water. Medical Physics, 2010, 37, 3687-3693.	2.9	31
51	Identification of the active components in Bone Marrow Soup: a mitigator against irradiation-injury to salivary glands. Scientific Reports, 2015, 5, 16017.	3.4	31
52	RapidBrachyMCTPS: a Monte Carlo-based treatment planning system for brachytherapy applications. Physics in Medicine and Biology, 2018, 63, 175007.	3.0	31
53	Design and dosimetry of a few leaf electron collimator for energy modulated electron therapy. Medical Physics, 2007, 34, 4782-4791.	2.9	30
54	Radiochromic film based dosimetry of imageâ€guidance procedures on different radiotherapy modalities. Journal of Applied Clinical Medical Physics, 2014, 15, 229-239.	1.8	30

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55	An investigation into the INTRABEAM miniature xâ€ray source dosimetry using ionization chamber and radiochromic film measurements. Medical Physics, 2018, 45, 4274-4286.	2.9	30
56	Comparison of modulated electron radiotherapy to conventional electron boost irradiation and volumetric modulated photon arc therapy for treatment of tumour bed boost in breast cancer. Radiotherapy and Oncology, 2011, 100, 253-258.	0.6	28
57	On mixed electronâ€“photon radiation therapy optimization using the column generation approach. Medical Physics, 2017, 44, 4287-4298.	2.9	28
58	Optically Stimulated Nanodosimeters with High Storage Capacity. Nanomaterials, 2019, 9, 1127.	4.1	27
59	Kinetics of [methyl-¹¹C]Thymidine in Patients with Squamous Cell Carcinoma of the Head and Neck. Acta OncolÃ³gica, 1996, 35, 737-741.	1.8	26
60	Monte Carlo based modulated electron beam treatment planning using a few-leaf electron collimatorâ€”feasibility study. Physics in Medicine and Biology, 2005, 50, 847-857.	3.0	26
61	Investigation of three radiation detectors for accurate measurement of absorbed dose in nonstandard fields. Medical Physics, 2010, 37, 2404-2413.	2.9	26
62	Perspective: lanthanide-doped upconverting nanoparticles. Methods and Applications in Fluorescence, 2019, 7, 012004.	2.3	26
63	Use of a control film piece in radiochromic film dosimetry. Physica Medica, 2016, 32, 202-207.	0.7	25
64	4D doseâ€position verification in radiation therapy using the RADPOS system in a deformable lung phantom. Medical Physics, 2011, 38, 179-187.	2.9	24
65	Aerrow: A probeâ€format graphite calorimeter for absolute dosimetry of highâ€energy photon beams in the clinical environment. Medical Physics, 2018, 45, 414-428.	2.9	24
66	Determination of absorbed dose to water from a miniature kilovoltage x-ray source using a parallel-plate ionization chamber. Physics in Medicine and Biology, 2018, 63, 015016.	3.0	24
67	Can dose outside the PTV influence the risk of distant metastases in stage I lung cancer patients treated with stereotactic body radiotherapy (SBRT)?. Radiotherapy and Oncology, 2018, 128, 513-519.	0.6	22
68	An absorbed dose to water standard for HDR I192r brachytherapy sources based on water calorimetry: Numerical and experimental proof-of-principle. Medical Physics, 2007, 34, 4957-4961.	2.9	21
69	A Monte Carlo method to evaluate the impact of positioning errors on detector response and quality correction factors in nonstandard beams. Physics in Medicine and Biology, 2011, 56, 2617-2634.	3.0	21
70	Proton and light ion RBE for the induction of direct DNA double strand breaks. Medical Physics, 2016, 43, 2131-2140.	2.9	21
71	Synthesis and characterization of biologically stable, doped LaF3 nanoparticles co-conjugated to PEG and photosensitizers. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 329, 26-34.	3.9	21
72	Experimental determination of electron source parameters for accurate Monte Carlo calculation of large field electron therapy. Physics in Medicine and Biology, 2005, 50, 779-786.	3.0	20

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73	Dose homogeneity specification for reference dosimetry of nonstandard fields. Medical Physics, 2011, 39, 407-414.	2.9	20
74	Development of a graphite probe calorimeter for absolute clinical dosimetry. Medical Physics, 2013, 40, 020701.	2.9	20
75	Local Correlation Between Monte-Carlo Dose and Radiation-Induced Fibrosis in Lung Cancer Patients. International Journal of Radiation Oncology Biology Physics, 2008, 70, 921-930.	0.8	19
76	Characterization of cylindrical ionization chambers for patient specific IMRT QA. Journal of Applied Clinical Medical Physics, 2009, 10, 241-251.	1.8	19
77	Direct measurement of electron beam quality conversion factors using water calorimetry. Medical Physics, 2015, 42, 6357-6368.	2.9	19
78	Tracking of Mesenchymal Stem Cells with Fluorescence Endomicroscopy Imaging in Radiotherapy-Induced Lung Injury. Scientific Reports, 2017, 7, 40748.	3.4	19
79	Experimental investigation on the accuracy of plastic scintillators and of the spectrum discrimination method in small photon fields. Medical Physics, 2017, 44, 654-664.	2.9	19
80	Toward automatic field selection and planning using Monte Carlo-based direct aperture optimization in modulated electron radiotherapy. Physics in Medicine and Biology, 2010, 55, 4563-4576.	3.0	18
81	Direct aperture optimization for FLECâ€based MERT and its application in mixed beam radiotherapy. Medical Physics, 2012, 39, 4820-4831.	2.9	18
82	The immune mediated role of extracellular HMGB1 in a heterotopic model of bladder cancer radioresistance. Scientific Reports, 2019, 9, 6348.	3.4	18
83	Comparison of Radiomics Models Built Through Machine Learning in a Multicentric Context With Independent Testing: Identical Data, Similar Algorithms, Different Methodologies. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 192-200.	4.3	18
84	Development of a water calorimetry-based standard for absorbed dose to water in HDR I192r brachytherapy. Medical Physics, 2010, 37, 1914-1923.	2.9	17
85	On charged particle equilibrium violation in external photon fields. Medical Physics, 2012, 39, 1473-1480.	2.9	17
86	An Empirical Approach for Avoiding False Discoveries When Applying High-Dimensional Radiomics to Small Datasets. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 201-209.	4.3	17
87	Novel knowledge-based treatment planning model for hypofractionated radiotherapy of prostate cancer patients. Physica Medica, 2020, 69, 36-43.	0.7	17
88	Comments on `Ionization chamber dosimetry of small photon fields: a Monte Carlo study on stopping-power ratios for radiosurgery and IMRT beams'. Physics in Medicine and Biology, 2003, 48, L43-L45.	3.0	16
89	Re-evaluation of the dose to the cyst wall in P-32 radiocolloid treatments of cystic brain tumors using the Dose-Point-Kernel and Monte Carlo methods. Medical Physics, 2003, 30, 2475-2481.	2.9	16
90	Experimental analysis of general ion recombination in a liquidâ€filled ionization chamber in highâ€energy photon beams. Medical Physics, 2013, 40, 062104.	2.9	16

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91	Determination of factors for ion chambers used in the calibration of Leksell Gamma Knife Perfexion model using EGSnrc and PENELOPE Monte Carlo codes. Medical Physics, 2018, 45, 1748-1757.	2.9	16
92	A comparative analysis of longitudinal computed tomography and histopathology for evaluating the potential of mesenchymal stem cells in mitigating radiation-induced pulmonary fibrosis. Scientific Reports, 2017, 7, 9056.	3.4	15
93	Optimal timing and frequency of bone marrow soup therapy for functional restoration of salivary glands injured by singleâ€dose or fractionated irradiation. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e1195-e1205.	2.7	15
94	Cellular Uptake, Cytotoxicity and Trafficking of Supported Lipid-Bilayer-Coated Lanthanide Upconverting Nanoparticles in Alveolar Lung Cancer Cells. ACS Applied Bio Materials, 2019, 2, 4527-4536.	4.7	15
95	On a local (de-)trapping model for highly doped Pr³⁺ radioluminescent and persistent luminescent nanoparticles. Nanoscale, 2020, 12, 20759-20766.	5.6	15
96	Comparison of dosimetric standards of Canada and France for photons at60Co and higher energies. Physics in Medicine and Biology, 2001, 46, 2119-2142.	3.0	14
97	An investigation into the use of MMCTP to tune accelerator source parameters and testing its clinical application. Journal of Applied Clinical Medical Physics, 2013, 14, 3-14.	1.8	14
98	A fast Monte Carlo code for proton transport in radiation therapy based on MCNPX. Journal of Medical Physics, 2014, 39, 156.	0.3	14
99	Analytical modelling of regional radiotherapy dose response of lung. Physics in Medicine and Biology, 2012, 57, 3309-3321.	3.0	13
100	Technical Note: Effect of explicit M and Nâ€shell atomic transitions on a lowâ€energy xâ€ray source. Medical Physics, 2016, 43, 1760-1763.	2.9	13
101	Cell extracts from spleen and adipose tissues restore function to irradiationâ€injured salivary glands. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e1289-e1296.	2.7	13
102	Comparing local control and distant metastasis in NSCLC patients between CyberKnife and conventional SBRT. Radiotherapy and Oncology, 2020, 144, 201-208.	0.6	13
103	Size-specific dose estimations for pediatric chest, abdomen/pelvis and head CT scans with the use of GATE. Physica Medica, 2019, 65, 181-190.	0.7	12
104	Robust mixed electronâ€“photon radiation therapy optimization. Medical Physics, 2019, 46, 1384-1396.	2.9	12
105	Response of coaxial Ge(Li) detectors to narrow beams of photons for stripping of X-ray bremsstrahlung spectra. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 258, 127-131.	1.6	11
106	Latent uncertainties of the precalculated track Monte Carlo method. Medical Physics, 2015, 42, 479-490.	2.9	11
107	Image quality for radiotherapy CT simulators with different scanner bore size. Physica Medica, 2018, 45, 65-71.	0.7	11
108	Clinical Implication of Dosimetry Formalisms for Electronic Low-Energy Photon Intraoperative Radiation Therapy. Practical Radiation Oncology, 2021, 11, e114-e121.	2.1	11

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109	Accurate determination of dose-point-kernel functions close to the origin using Monte Carlo simulations. Medical Physics, 2004, 31, 814-818.	2.9	10
110	Dose comparison between TG-43â€“based calculations and radiochromic film measurements of the Freiburg flap applicator used for high-dose-rate brachytherapy treatments of skin lesions. Brachytherapy, 2017, 16, 1065-1072.	0.8	10
111	Density effects of silica aerogel insulation on the performance of a graphite probe calorimeter. Medical Physics, 2019, 46, 1874-1882.	2.9	10
112	Considerations and limitations of fast Monte Carlo electron transport in radiation therapy based on precalculated data. Medical Physics, 2009, 36, 530-540.	2.9	9
113	Radiochromic filmâ€“based quality assurance for CT-based high-dose-rate brachytherapy. Brachytherapy, 2015, 14, 578-585.	0.8	9
114	Mesenchymal Stem Cells Adopt Lung Cell Phenotype in Normal and Radiation-induced Lung Injury Conditions. Applied Immunohistochemistry and Molecular Morphology, 2016, 24, 283-295.	1.2	9
115	Doseâ€“response linearization in radiochromic film dosimetry based on multichannel normalized pixel value with an integrated spectral correction for scanner response variations. Medical Physics, 2019, 46, 5336-5349.	2.9	9
116	Dose measurements nearby low energy electronic brachytherapy sources using radiochromic film. Physica Medica, 2019, 64, 40-44.	0.7	9
117	Absolute dosimetry of a 1.5 T MRâ€guided acceleratorâ€based highâ€energy photon beam in water and solid phantoms using Aerrow. Medical Physics, 2020, 47, 1291-1304.	2.9	9
118	The Rapidly-Developing Area of Radiocardiology: Principles,ÂComplications and Applications of RadiotherapyÂon the Heart. Canadian Journal of Cardiology, 2021, 37, 1818-1827.	1.6	9
119	Experimental verification of beam quality in highâ€contrast imaging with orthogonal bremsstrahlung	2.9	7
120	Image-Guided Fluorescence Endomicroscopy: From Macro- to Micro-Imaging of Radiation-Induced Pulmonary Fibrosis. Scientific Reports, 2017, 7, 17829.	3.4	7
121	Simultaneous trajectory generation and volumetric modulated arc therapy optimization. Medical Physics, 2020, 47, 3078-3090.	2.9	7
122	Ion chamber and filmâ€based quality assurance of mixed electronâ€photon radiation therapy. Medical Physics, 2021, 48, 5382-5395.	2.9	7
123	Response to stereotactic ablative radiotherapy in a novel orthotopic model of non-small cell lung cancer. Oncotarget, 2018, 9, 1630-1640.	2.0	7
124	Inverse optimization of lowâ€cost kilovoltage xâ€ray arc therapy plans. Medical Physics, 2018, 45, 5161-5171.	2.9	6
125	Investigating the impact of the CT Hounsfield unit range on radiomic feature stability using dual energy CT data. Physica Medica, 2021, 88, 272-277.	0.7	6
126	Comment on â€œReference radiochromic film dosimetry in kilovoltage photon beams during CBCT image acquisitionâ€•[Med. Phys. 37, 1083â€“1092 (2010)]. Medical Physics, 2010, 37, 3008-3008.	2.9	5

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127	Monte Carlo investigation of collapsed versus rotated IMRT plan verification. Journal of Applied Clinical Medical Physics, 2014, 15, 133-147.	1.8	5
128	The role of medical physics in prostate cancer radiation therapy. Physica Medica, 2016, 32, 435-437.	0.7	5
129	Technical Note: Response time evolution of XR-QA2 GafChromicâ„¢ film models. Medical Physics, 2018, 45, 488-492.	2.9	5
130	Investigating the role of functional imaging in the management of soft-tissue sarcomas of the extremities. Physics and Imaging in Radiation Oncology, 2018, 6, 53-60.	2.8	5
131	Trajectoryâ€based VMAT for cranial targets with delivery at shortened SAD. Medical Physics, 2020, 47, 3103-3112.	2.9	5
132	Monte Carlo and water calorimetric determination of kilovoltage beam radiotherapy ionization chamber correction factors. Physics in Medicine and Biology, 2020, 65, 105001.	3.0	5
133	Experimental validation of recommended msr-correction factors for the calibration of Leksell Gamma Knife^{Â®} Icon^{tm} unit following IAEA TRS-483. Physics in Medicine and Biology, 2020, 65, 065003.	3.0	5
134	IAEAâ€AAPM TRSâ€483â€based reference dosimetry of the new RefleXion biologyâ€guided radiotherapy (BgRT) machine. Medical Physics, 2021, 48, 1884-1892.	2.9	5
135	FDG-PET-based differential uptake volume histograms: a possible approach towards definition of biological target volumes. British Journal of Radiology, 2016, 89, 20150388.	2.2	4
136	Polarity and ion recombination corrections in continuous and pulsed beams for ionization chambers with high Z chamber walls. Physica Medica, 2017, 35, 102-109.	0.7	4
137	Reply to â€œComments on theTRSâ€483 Protocol on Small field Dosimetryâ€•[Med. Phys. 45(12), 5666â€“5668 (2018)]. Medical Physics, 2018, 45, 5669-5671.	2.9	4
138	Monte Carlo simulations of different CT X-ray energy spectra within CTDI phantom and the influence of its changes on radiochromic film measurements. Physica Medica, 2019, 62, 105-110.	0.7	4
139	Positional and angular tracking of HDR 192 Ir source for brachytherapy quality assurance using radiochromic film dosimetry. Medical Physics, 2020, 47, 6122-6139.	2.9	4
140	Monte Carlo calculation of the relative TG-43 dosimetry parameters for the INTRABEAM electronic brachytherapy source. Physics in Medicine and Biology, 2020, 65, 245041.	3.0	4
141	Special section: Selected papers from the Fourth International Workshop on Recent Advances in Monte Carlo Techniques for Radiation Therapy. Physics in Medicine and Biology, 2012, 57, .	3.0	3
142	A source model for modulated electron radiation therapy using dynamic jaw movements. Medical Physics, 2013, 40, 051707.	2.9	3
143	Timeâ€resolved diode dosimetry calibration through Monte Carlo modeling for inÂvivo passive scattered proton therapy range verification. Journal of Applied Clinical Medical Physics, 2017, 18, 200-205.	1.8	3
144	Radio-selective effects of a natural occurring muscle-derived dipeptide in A549 and normal cell lines. Scientific Reports, 2019, 9, 11513.	3.4	3

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145	Monte Carlo calculated kilovoltage x-ray arc therapy plans for three lung cancer patients. Biomedical Physics and Engineering Express, 2019, 5, 065022.	1.2	3
146	Overlooked pitfalls in multi-class machine learning classification in radiation oncology and how to avoid them. Physica Medica, 2020, 70, 96-100.	0.7	3
147	Monte Carlo calculation of the TG-43 dosimetry parameters for the INTRABEAM source with spherical applicators. Physics in Medicine and Biology, 2021, 66, 215017.	3.0	3
148	Fluorescence Endomicroscopy Imaging of Mesenchymal Stem Cells in the Rat Lung. Current Protocols in Stem Cell Biology, 2018, 45, e52.	1.4	2
149	Modeling the primary source intensity distribution: reconstruction and inter-comparison of six Varian TrueBeam sources. Physics in Medicine and Biology, 2019, 64, 135005.	3.0	2
150	Extending the IAEAâ€AAPM TRSâ€483 methodology for radiation therapy machines with field sizes down to 10 Ã— 2 cm 2. Medical Physics, 2020, 47, 5209-5221.	2.9	2
151	Strategic Training in Transdisciplinary Radiation Science for the 21st Century (STARS21): 15-Year Evaluation of an Innovative Research Training Program. International Journal of Radiation Oncology Biology Physics, 2021, 110, 656-666.	0.8	2
152	Feasibility of operating a millimeterâ€scale graphite calorimeter for absolute dosimetry of smallâ€field photon beams in the clinic. Medical Physics, 2021, 48, 7476-7492.	2.9	2
153	Physics aspects of the Papillon techniqueâ€”Five decades later. Brachytherapy, 2018, 17, 234-243.	0.8	1
154	Proton beam therapy should remain in the public domain. Cmaj, 2019, 191, E1284-E1284.	4.0	1
155	Determination of field output correction factors of radiophotoluminescence glass dosimeter and CC01 ionization chamber and validation against IAEA-AAPM TRS-483 code of practice. Physica Medica, 2021, 88, 167-174.	0.7	1
156	How Low Should You Go: Choice of Minimum Dose Prescription in Cranial Radiosurgery. Cureus, 2015, 7, e282.	0.5	1
157	Investigation of field output factors using IAEA-AAPM TRS-483 code of practice recommendations and Monte Carlo simulation for 6 MV photon beams. Journal of Radiotherapy in Practice, 0, , 1-6.	0.4	1
158	Reply to â€œComment on â€˜Dose homogeneity specification for reference dosimetry of nonstandard fieldsâ€™â€•[Med. Phys. 39, 407â€“414 (2012)]. Medical Physics, 2013, 40, 037102.	2.9	0
159	Special section: Selected papers from the Fifth International Workshop on Monte Carlo Techniques in Medical Physics. Physics in Medicine and Biology, 2015, 60, 4947-4950.	3.0	0
160	Response to â€œComment on â€˜A protocol for EBT3 radiochromic film dosimetry using reflection scanningâ€™â€‰â€•[Med. Phys. 41(12), 122101 (6pp.) (2014)]. Medical Physics, 2016, 43, 1580-1582.	2.9	0
161	Step-size effect on calculated photon and electron beam Cherenkov-to-dose conversion factors. Physica Medica, 2020, 78, 32-37.	0.7	0
162	Large-scale dosimetric assessment of Monte Carlo recalculated doses for lung robotic stereotactic body radiation therapy.. Physica Medica, 2020, 76, 7-15.	0.7	0

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163	Comparison of quantitative and qualitative scoring approaches for radiation-induced pulmonary fibrosis as applied to a preliminary investigation into the efficacy of mesenchymal stem cell delivery methods in a rat model. BJR|Open, 2021, 3, 20210006.	0.7	0
164	Poster - 16: Time-resolved diode dosimetry for in vivo proton therapy range verification: calibration through numerical modeling. Medical Physics, 2016, 43, 4939-4939.	2.9	0